Definitions

AEGLs represent threshold exposure limits for the general public and are applicable to emergency exposure periods ranging from 10 minutes to 8 hours. AEGL-2 and AEGL-3, and AEGL-1 values as appropriate, will be developed for each of five exposure periods (10 and 30 minutes, 1 hour, 4 hours, and 8 hours) and will be distinguished by varying degrees of severity of toxic effects. It is believed that the recommended exposure levels are applicable to the general population including infants and children, and other individuals who may be susceptible. The three AEGLs have been defined as follows:

AEGL-1 is the airborne concentration, expressed as parts per million or milligrams per cubic meter (ppm or mg/m3) of a substance above which it is predicted that the general population, including susceptible individuals, could experience notable discomfort, irritation, or certain asymptomatic nonsensory effects. However, the effects are not disabling and are transient and reversible upon cessation of exposure.

AEGL-2 is the airborne concentration (expressed as ppm or mg/m3) of a substance above which it is predicted that the general population, including susceptible individuals, could experience irreversible or other serious, long-lasting adverse health effects or an impaired ability to escape.

AEGL-3 is the airborne concentration (expressed as ppm or mg/m3) of a substance above which it is predicted that the general population, including susceptible individuals, could experience lifethreatening health effects or death.

Airborne concentrations below the AEGL-1 represent exposure levels that can produce mild and progressively increasing but transient and nondisabling odor, taste, and sensory irritation or certain asymptomatic, nonsensory effects. With increasing airborne concentrations above each AEGL, there is a progressive increase in the likelihood of occurrence and the severity of effects described for each corresponding AEGL. Although the AEGL values represent threshold levels for the general public, including susceptible subpopulations, such as infants, children, the elderly, persons with asthma, and those with other illnesses, it is recognized that individuals, subject to unique or idiosyncratic responses, could experience the effects described at concentrations below the corresponding AEGL.

	Hydr	ogen sulfide 7	783-06-4 (Fina	al)			
ppm							
	10 min	30 min	60 min	4 hr	8 hr		
AEGL 1	0.75	0.60	0.51	0.36	0.33		
AEGL 2	41	32	27	20	17		
AEGL 3	76	59	50	37	31		

^{*} Level of Odor Awareness = 0.01 ppm

	Ben	zene 71-43-2	(Interim)			
ppm (12/12/06)						
	10 min	30 min	60 min	4 hr	8 hr	
AEGL 1	130	73	52	18	9.0	
AEGL 2	2,000*	1,100	800	400	200	
AEGL 3	**	5,600*	4,000*	2,000*	990	

Lower Explosive Limit (LEL) = 14,000 ppm

 $* = \ge 10\%$ LEL; $** = \ge 50\%$ LEL

AEGL 3 - 10 mins = ** 9,700 ppm

For values denoted as * safety considerations against the hazard(s) of explosion(s) must be taken into account.

For values denoted as ** extreme safety considerations against the hazard(s) of explosion(s) must be taken into account.

Phenol 108-95-2 (Final)							
ppm							
10 min 30 min 60 min 4 hr 8 hr							
AEGL 1	19	19	15	9.5	6.3		
AEGL 2	29	29	23	15	12		
AEGL 3	NR	NR	NR	NR	NR		

NR = Not recommended due to insufficient data Level of Distinct Odor Awareness (LOA) = 0.25 ppm

	Ethyl ben	zene 100-41	-4 (Interim)				
ppm (9/21/09							
	10 min	30 min	60 min	4 hr	8 hr		
AEGL 1	33	33	33	33	33		
AEGL 2	2900	1600	1100	660	580		
AEGL 3	4700	2600	1800	1000	910		

	To	luene 108-88-3	3 (Final)		
		ppm			
	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	67	67	67	67	67
AEGL 2	1,400*	760	560	310	250
AEGL 3	** 10,000 ppm	5,200*	3,700*	1,800*	1,400*

Lower Explosive Limit (LEL) = 14,000 ppm

* = \ge 10% LEL; ** = \ge 50% LEL

AEGL 3 - 10 min = **10,000 ppm

For values denoted as * safety considerations against the hazard(s) of explosion(s) must be taken into

account.

For values denoted as ** extreme safety considerations against the hazard(s) of explosion(s) must be taken into account.

	X	ylenes 1330)-20-7 (Final)				
ppm							
	10 min	30 min	60 min	4 hr	8 hr		
AEGL 1	130	130	130	130	130		
AEGL 2	2,500*	1,300*	920*	500	400		
AEGL 3	* *	3,600*	2,500*	1,300*	1,000*		

Lower Explosive Limit (LEL) = 9,000 ppm

 $\star = \underline{>}10\% \text{ LEL}$

** = \ge 50% LEL

AEGL 3 - 10 min = ** 7,200 ppm

For values denoted as * safety considerations against the hazard(s) of explosion(s) must be taken into account.

For values denoted as ** extreme safety considerations against the hazard(s) of explosion(s) must be taken into account.